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High precision Higgs Phenomenology at the LHC

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Fiducial differential cross sections are reliable observables at the LHC. Precision measurements are providing unprecedented data which reveals the detailed structure of the Standard Model. From the theory point of view, event generators could simulate the underlying scattering processes and apply the same experimental selection criterions to reduce systematical errors when comparing with data. I will introduce some of the implementations and simulations in NNLOJET package with the-state-of-the-art theory precisions at NNLO QCD and above then illustrate their applications when comparing with LHC measurements of the Higgs boson.

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